Please amend the claims as follows:

Claims 1-3 (Cancelled).

- (Previously presented) A method for purifying used motor oil, comprising: mixing the used motor oil with a phase transfer catalyst in the presence of a base compound, wherein the phase transfer catalyst comprises a glycol;
- mixing the used motor oil with a solvent to dissolve contaminants from the used motor oil into the solvent; and then

separating the solvent from the used motor oil.

- (Cancelled).
- (Previously Presented) The method of claim 4, wherein the phase transfer catalyst comprises ethylene glycol.
- 7. (Previously Presented) The method of claim 4, further comprising removing contaminants from the used motor oil by distilling the used motor oil at a temperature of about 200°C to about 275°C and a pressure of about 100 torr to about 200 torr.
- 8. (Previously presented) The method of claim 4, further comprising removing contaminants from the used motor oil by distilling the used motor oil at a temperature of about 275°C to about 300°C and a pressure of about 0.05 torr to about 0.2 torr.
- 9. (Previously presented) The method of claim 4, further comprising removing contaminants from the used motor oil by distilling the used motor oil at a temperature of about 200°C to about 300°C and a pressure of about 0.05 torr to about 200 torr.
- (Cancelled),

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- (Previously presented) The method of claim 4, wherein the base compound is an inorganic or organic base compound.
- 12. (Previously presented) The method of claim 11, wherein the Inorganic base compound is selected from the group consisting of sodium hydroxide, potassium hydroxide, and combinations thereof.
- 13. (Previously presented) The method of claim 4, wherein a mixture of the used motor oil and phase transfer catalyst comprises about 1 % to about 10 % by weight of the phase transfer catalyst.
- (Cancelled).
- 15. (Previously presented) The method of claim 4, further comprising separating the contaminants from the solvent.
- (Previously presented) The method of claim 15, further comprising recycling the solvent.
- 17. (Cancelled).
- (Previously presented) The method of claim 4, wherein separating the solvent from the used motor oil comprises extraction.
- 19. (Previously presented) The method of claim 4, wherein separating the solvent from the used motor oil comprises flowing the solvent counter to the used motor oil within means for extraction.
- 20. (Currently amended) The method of claim 19, wherein means for extraction comprises a mixer, agitated column, non-agitated column, and Karr column or combinations thereof.
- 21. (Previously presented) The method of claim 4, wherein the solvent comprises N,N-dimethylformamide.

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- 22. (Previously presented) The method of claim 4, wherein the solvent is a polar organic compound.
- 23. (Previously presented) A method for removing contaminants from a used petroleum distillate, comprising:

mixing the used petroleum distillate with ethylene glycol in the presence of a base compound:

mixing the used petroleum distillate with a solvent to dissolve contaminants from the used petroleum distillate into the solvent; and then

separating the solvent from the used petroleum distillate.

- 24 (Previously presented) The method of claim 23, wherein the used petroleum distillate comprises motor oil.
- 25. (Previously presented) The method of claim 23, wherein separating the solvent from the used petroleum distillate comprises distilling the used petroleum distillate at a temperature of about 200°C to about 275°C and a pressure of about 100 torr to about 200 torr.
- 26. (Previously presented) The method of claim 23, wherein separating the solvent from the used petroleum distillate comprises distilling the used petroleum distillate at a temperature of about 275°C to about 300°C and a pressure of about 0.05 torr to about 0.2 torr.
- 27. (Previously presented) The method of claim 23, wherein separating the solvent from the used petroleum distillate comprises distilling the used petroleum distillate at a temperature of about 200°C to about 300°C and a pressure of about 0.05 torr to about 200 torr.
- 28. (Previously presented) The method of claim 23, wherein a mixture of the used petroleum distillate and ethylene glycol comprises about 1 % to about 10 % by weight of ethylene glycol.

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- 29. (Cancelled),
- (Previously presented) The method of claim 23, further comprising separating the contaminants from the solvent.
- (Previously presented) The method of claim 30, further comprising recycling the solvent.
- (Cancelled).
- 33. (Previously presented) The method of claim 23, wherein separating the solvent from the petroleum distillate comprises extraction.
- 34. (Previously presented) The method of claim 23, wherein separating the solvent from the used petroleum distillate comprises flowing the solvent counter to the used petroleum distillate within means for extraction.
- 35. (Currently amended) The method of claim 34, wherein means for extraction comprises a mixer, agitated column, non-agitated column, and Karr column or combinations thereof.
- 36. (Previously presented) The method of claim 23, wherein the solvent comprises N,N-dimethylformamide.
- 37. (Previously presented) The method of claim 23, wherein the solvent is a polar organic compound.
- 38. (Previously presented) A method for removing contaminants from used motor oil, comprising:

mixing the used motor oil with ethylene glycol in the presence of an inorganic base compound;

mixing the used motor oil with a solvent to dissolve contaminants from the used motor oil into the solvent;

separating the solvent from the used motor oil; and then

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- 39. (Cancelled).
- 40. (Previously presented) The method of claim 38, wherein the inorganic base compound is selected from the group consisting of sodium hydroxide, potassium hydroxide, and combinations thereof.
- 41. (Previously presented) The method of claim 38, wherein a mixture of the used motor oil and ethylene glycol comprises about 1 % to about 10 % by weight of the ethylene glycol.
- 42. (Cancelled).
- (Previously presented) The method of claim 38, further comprising recycling the solvent.
- 44. (Cancelled).
- 45. (Previously presented) The method of claim 38, wherein separating the solvent from the used motor oil comprises extraction.
- 46. (Previously presented) The method of claim 38, wherein separating the solvent from the used motor oil comprises flowing the solvent counter to the used motor oil within means for extraction
- 47. (Currently amended) The method of claim 46, wherein the means for extraction comprises a mixer, agitated column, non-agitated column, and Karr column or combinations thereof.
- 48. (Previously presented) The method of claim 38, wherein the solvent comprises N,N-dimethylformamide.

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50. (Previously presented) A method for removing contaminants from used motor oil, comprising:

mixing the used motor oil with a glycol in the presence of an inorganic base compound:

mixing the used motor oil with N,N-dimethylformamide to dissolve contaminants from the used motor oil into the solvent:

separating the N,N-dimethylformamide from the used motor oil; and then separating the contaminants from the solvent.

- 51. (Previously presented) The method of claim 50, wherein the inorganic base compound is selected from the group consisting of sodium hydroxide, potassium hydroxide, and combinations thereof.
- 52. (Cancelled).
- 53. (Previously presented) The method of claim 50, wherein the glycol comprises ethylene glycol.

Claims 54-59 (Cancelled).

- (New) The method of claim 50, wherein a mixture of the motor oil and phase 60. transfer catalyst comprises about 1 % to about 10 % by weight of the phase transfer catalyst.
- 61. (New) The method of claim 50, wherein a mixture of the motor oil and base compound comprises about 0.5 % to about 5 % by weight of the base compound in volume of solution.
- 62. (New) The method of claim 50, wherein separating N,N-dimethylformamide from the motor oil comprises extraction.

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- 63. (New) The method of claim 50, wherein separating N,N-dimethylformamide from the motor oil comprises flowing the solvent counter to the motor oil within means for extraction.
- 64. (New) The method of claim 58, wherein means for extraction comprises a mixer, agitated column, non-agitated column, and Karr column.
- 65. (New) The method of claim 4, wherein a concentration of the base compound in the used oil is between 0.5 and 5 weight percent on a dry weight basis.
- 66. (New) The method of claim 23, wherein a concentration of the base compound in the used petroleum distillate is between 0.5 and 5 weight percent on a dry weight basis.
- 67. (New) The method of claim 38, wherein a concentration of the base compound in the used motor oil is between 0.5 and 5 weight percent on a dry weight basis.